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TITLE: ***Surface*** - ***active*** fluorinated alkyl
sulfides

INVENTOR(S): Toukan, Sameeh Said; Hauptschein, Murray

PATENT ASSIGNEE(S): Pennwalt Corp.

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| DE 2239709 | A1 | 19730222 | DE 1972-2239709 | 19720811 |
| CA 962281 | A1 | 19750204 | CA 1972-145564 | 19720623 |
| GB 1395955 | A | 19750529 | GB 1972-35227 | 19720727 |
| NL 7210982 | A | 19730214 | NL 1972-10982 | 19720811 |
| FR 2150116 | A5 | 19730330 | FR 1972-29239 | 19720811 |
| JP 48026714 | A2 | 19730409 | JP 1972-80040 | 19720811 |
| JP 57047187 | B4 | 19821007 | | |

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AB Eleven title compds., i.e. bis[2-[7-(trifluoromethyl)perfluorooctyl]ethylthiomethyl]methanol (I) [***40099-98-7***] and (F₃C)₂CF(CF₂)_nCH₂CH₂SX [II; n = 4 or 6; X = CH₂CH(OH)CH₂OH, CH₂CH₂CO₂H, CH₂CH₂NMe₂, CH₂CH₂NH₂,

4-pyridyl, 2-benzimidazolyl, 2-pyridimdy, o-carboxyphenyl, or 3,5-dichloro-2-pyridyl] and their derivs., e.g. carbamates or chloroacetates, were prepd. without olefin formation in 33-100% yield by reaction of (F₃C)₂CF(CF₂)_nCH₂CH₂I (III) with (HSCH₂)₂CHOH (IV) and HSR, resp., in the presence of NaOH in a polar solvent, e.g. EtOH. I and II were partly used as ***surface*** - ***active*** agents and useful as insecticides. Thus, IV was added to NaOH-EtOH, the mixt. heated 5-10 min at .sim.50.deg., added to III (n = 6) in EtOH, and the mixt. refluxed 1 hr to give 81% I.

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